

Internal Letter



Rockwell International

WS-LT-00117

Date . May 28, 1987

No.

DB 28.12

TO

(Name, Organization, Internal Address)

. S. D. Swanson
 . Support Proc. Sys. Dev.
 . Bldg. 776

FROM

(Name, Organization, Internal Address, Phone)

. R. L. Henry
 . Env. Analysis & Control
 . Bldg. T452B
 . 4368

SUBJECT: LAUNDRY WASTE WATER

From our discussion on May 28, 1987, you informed me that your intent was to use the MEMTEK ultrafiltration recycling system to decrease the amount of laundry waste water (7,000,000 gallons per year) currently being treated in Building 374. The 374 Product Water (15,000,000 gallons per year) after treatment is being used in the Building 371 cooling tower and Building 443 steam plant.

Allowable limits that must not be exceeded for radioactive and non-radioactive contaminants in the 374 product water are required for utilities and environmental control.

The allowable limits for laundry waste water from the MEMTEK ultrafiltration recycling system must be as restrictive and the waste water should never be discharged to the sanitary sewage system. The contaminants and their allowable limits are listed below.

In the near future, EPA will place limits on other contaminants (organics) in the 374 Product Water and likewise those limits will apply to the MEMTEK ultrafiltration recycling system.

Table I.
 Allowable limits in wastewater from the
 MEMTEK Ultrafiltration Recycling System



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<u>Parameter</u>	<u>Allowable limit</u>	<u>Regulatory Authority</u>
Gross alpha	15 (40)* pCi/l	EPA (Rocky Flats)
Gross beta	50 pCi/l	EPA
Uranium	5 pCi/l	Rocky Flats
Pu-239	1-2 pCi/l	Rocky Flats
Americium	1-2 pCi/l	Rocky Flats

* 15 pCi/l limit excludes uranium and radon.
 40 pCi/l limit includes uranium and radon.

ADMIN RECORD

IA-A-000304

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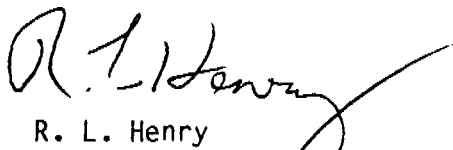
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Table I.
Allowable limits in wastewater from the
MEMTEK Ultrafiltration Recycling System (cont.)

<u>Parameter</u>	<u>Allowable limit</u>	<u>Regulatory Authority</u>
Tritium	1500 pCi/l	Rocky Flats
pH	6.0 - 9.0 S.U.	NPDES (EPA)
NO ₃ as N	10 mg/l	NPDES (EPA)
Phosphorus	12 mg/l	NPDES (EPA)
Suspended Solids	30 mg/l	NPDES (EPA)
Chromium, Total	<0.05 mg/l	NPDES (EPA)
Beryllium	none	EPA

Please feel free to contact me if you have additional questions.


R. L. Henry
Environmental Analysis
and Control

cc:
N. M. Daugherty
G. L. Potter
G. H. Setlock